

No. 1

Query :

```
-- NO 1
-- jumlah customer tiap bulan yang melakukan order pada tahun 1997.
select month(OrderDate) as Bulan, count(CustomerID) jumlah_customer
from dbo.Orders where year(OrderDate) = 1997
group by month(OrderDate);
```

Result:

	Bulan	jumlah_customer
1	1	33
2	2	29
3	3	30
4	4	31
5	5	32
6	6	30
7	7	33
8	8	33
9	9	37
10	10	38
11	11	34
12	12	48

No. 2

Query :

```
-- NO 2
-- nama employee yang termasuk Sales Representative.
select CONCAT(FirstName, ' ', LastName) as Nama from Employees where Title = 'Sales Representative';
```

Result:

	Nama
1	Nancy Davolio
2	Janet Leverling
3	Margaret Peacock
4	Michael Suyama
5	Robert King
6	Anne Dodsworth

No. 3

Query :

```

-- NO 3
-- top 5 nama produk yang quantitynya paling banyak diorder pada bulan Januari 1997
select row_ranking_top5, a.ProductID, c.ProductName, count_order
from(
    select row_number() over(order by count(b.ProductID) desc) as row, b.ProductID, count(b.ProductID) count from
    (
        select OrderID, OrderDate from Orders
    )a
    left join
    (
        select 'top_5' top5, OrderID, ProductID from [Order Details]
    )b on a.OrderID = b.OrderID
    where year(a.OrderDate) = 1997 and month(a.OrderDate) = 1 group by ProductID
    )a
    left join
    (
        select ProductID, ProductName from Products
    )c on a.ProductID = c.ProductID
where row <= 5 order by count desc;

```

Result:

	ranking_top5	ProductID	ProductName	count_order
1	1	26	Gumbär Gummibärchen	4
2	2	59	Raclette Courdavault	4
3	3	56	Gnocchi di nonna Alice	3
4	4	14	Tofu	3
5	5	33	Geitost	3

No. 4

Query :

```

-- NO 4
-- nama company yang melakukan order Chai pada bulan Juni 1997
select b.CompanyName
from(
    select OrderID, OrderDate, CustomerID from Orders
    )a
    left join
    (
        select CustomerID, CompanyName from Customers
    )b on a.CustomerID= b.CustomerID
    left join
    (
        select a.OrderID, a.ProductID, b.ProductName
        from(
            select OrderID, ProductID from [Order Details]
        )a
        left join(
            select ProductID, ProductName from Products
        )b on a.ProductID = b.ProductID
    )c on a.OrderID=c.OrderID
where year(OrderDate)=1997 and month(OrderDate)=6 and c.ProductName = 'Chai';

```

Result:

	CompanyName
1	Tortuga Restaurante

No. 5

Query :

```
--NO 5
--jumlah OrderID yang pernah melakukan pembelian (unit_price dikali quantity) <=100, 100<x<=250, 250<x<=500, dan >500
select keterangan, count(distinct OrderID) jumlah_order_id from(
    select case
        when a.pembelian <=100 then '<=100'
        when a.pembelian>100 and a.pembelian<=250 then '100<x<=250'
        when a.pembelian>250 and a.pembelian<=500 then '250<x<=500'
        when a.pembelian>500 then '>500'
    end keterangan, OrderID from(
        select orderID, UnitPrice*Quantity as pembelian from [Order Details]
    )a
)a group by keterangan;
```

Result:

	keterangan	jumlah_order_id
1	<=100	269
2	>500	502
3	100<x<=250	382
4	250<x<=500	425

No. 6

```
--NO 6
-- Company name pada tabel customer yang melakukan pembelian di atas 500 pada tahun 1997.
select distinct(b.CompanyName) from(
    select OrderID, CustomerID, OrderDate from Orders
)a
left join
(
    select CustomerID, CompanyName from Customers
)b on a.CustomerID = b.CustomerID
left join
(
    select OrderID, UnitPrice*Quantity as pembelian from [Order Details]
)c on a.OrderID = c.OrderID
where c.pembelian >500 and year(OrderDate)=1997;
```

Result :

	CompanyName
1	Alfreds Futterkiste
2	Antonio Moreno Taquería
3	Around the Horn
4	Berglunds snabbköp
5	Blondies père et fils
6	Bólido Comidas preparadas
7	Bon app'
8	Bottom-Dollar Markets
9	B's Beverages
10	Chop-suey Chinese
11	Comércio Mineiro
12	Die Wandermöbel
13	Eastern Connection
14	Ernst Handel
15	Familia Arquibaldo
16	Foies gras
17	Folk och fä HB
18	Frankenversand
19	Furia Bacalhau e Frutos d...

Query executed successfully. | LAPTOP-7B2UCF34\SQLEXPRESS0... | LAPTOP-7B2UCF34\ADMIN ... | Northwind | 00:00:00 | 65 rows

No. 7

Query :

```

-- NO 7
-- nama produk yang merupakan Top 5 sales tertinggi tiap bulan di tahun 1997.
select bulan, ProductName, Quantity, top5sales from(
    select tahun, bulan, b.ProductName ProductName, a.Quantity Quantity,
    ROW_NUMBER () over (PARTITION by month(c.OrderDate) order by Quantity DESC) as top5sales from(
        select OrderID, ProductID, Quantity from [Order Details]
    )a
    left join
    (
        select ProductID, ProductName from Products
    )b on a.ProductID = b.ProductID
    inner join
    (
        select OrderID, OrderDate, year(OrderDate) tahun, month(OrderDate) bulan from Orders
    )c on a.OrderID = c.OrderID
    where tahun = 1997
)a
where top5sales <= 5
order by 1, 3 DESC;

```

Result:

	bulan	ProductName	Quantity	top5sales
1	1	Gnocchi di nonna Alice	70	1
2	1	Chocolade	70	2
3	1	Raclette Courdavault	70	3
4	1	Veggie-spread	65	4
5	1	Flotemysost	60	5
6	2	Pâté chinois	120	1
7	2	Gula Malacca	100	2
8	2	Sirop d'érable	90	3
9	2	Tourtière	80	4
10	2	Louisiana Hot Spiced Okra	60	5
11	3	Guaraná Fantástica	80	1
12	3	Louisiana Hot Spiced Okra	60	2
13	3	Raclette Courdavault	60	3

Query executed successfully. | LAPTOP-7B2UCF34\SQLEXPRESS0... | LAPTOP-7B2UCF34\ADMIN ... | Northwind | 00:00:00 | 60 rows

No. 8

Query:

```

-- NO 8
-- Membuat view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon.
create or ALTER view dbo.create_view AS
select OrderID, a.ProductID, b.ProductName, UnitPrice, Quantity, Discount, pembelian-(pembelian*Discount) as harga_akhir from(
    select *, UnitPrice*Quantity as pembelian from [Order Details]
) a
left join
(
    select ProductID, ProductName from Products
) b on a.ProductID = b.ProductID;

```

Result:

Messages Client Statistics

Commands completed successfully.

Completion time: 2023-01-25T22:24:30.6307438+07:00

No. 9

Query :

```

-- NO 9
-- memanggil CustomerID, CustomerName/company name, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu.
select a.CustomerID, CompanyName, OrderDate, RequiredDate, ShippedDate from (
    select CustomerID, CompanyName from Customers)a
left join
(
    select OrderID, CustomerID, OrderDate, RequiredDate, ShippedDate from Orders
)b on a.CustomerID = b.CustomerID

```

Result:

	CustomerID	CompanyName	OrderDate	RequiredDate	ShippedDate
1	VINET	Vins et alcools Chevalier	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000
2	TOMSP	Toms Spezialitäten	1996-07-05 00:00:00.000	1996-08-16 00:00:00.000	1996-07-10 00:00:00.000
3	HANAR	Hanari Carnes	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000
4	VICTE	Victualles en stock	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000
5	SUPRD	Suprêmes délices	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000
6	HANAR	Hanari Carnes	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000
7	CHOPS	Chop-suey Chinese	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000
8	RICSU	Richter Supermarkt	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000
9	WELLI	Wellington Importadora	1996-07-15 00:00:00.000	1996-08-12 00:00:00.000	1996-07-17 00:00:00.000
10	HILAA	HILARION-Abastos	1996-07-16 00:00:00.000	1996-08-13 00:00:00.000	1996-07-22 00:00:00.000
11	ERNSH	Ernst Handel	1996-07-17 00:00:00.000	1996-08-14 00:00:00.000	1996-07-23 00:00:00.000
12	CENTC	Centro comercial Moctezuma	1996-07-18 00:00:00.000	1996-08-15 00:00:00.000	1996-07-25 00:00:00.000
13	OTTIK	Otto's Kiosket	1996-07-19 00:00:00.000	1996-08-16 00:00:00.000	1996-07-26 00:00:00.000

Query executed successfully. | LAPTOP-7B2UCF34\SQLEXPRESS0... | LAPTOP-7B2UCF34\ADMIN ... | Northwind | 00:00:00 | 832 rows

Procedure:

